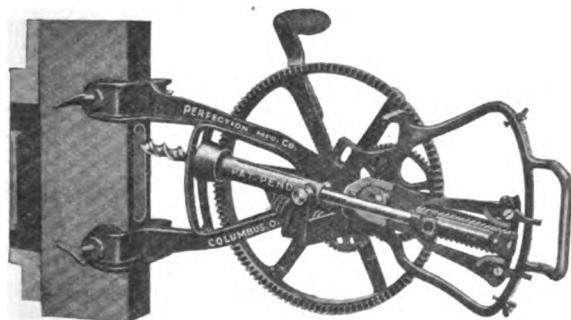


The Perfection Mortising Machine.

A machine designed for mortising for door locks and embodying features of construction which render it of particular interest to carpenters and building contractors, is the device illustrated in Fig. 13 of the accompanying engravings, and which is being turned out by the Perfection Mfg. Company, with home office at 48 West Patterson avenue, Columbus, Ohio. It is known as the Perfection mortising machine, and has a tool grinding attachment. It weighs only 12 lb., and the makers state that with it a perfect mortise can be done in 3 min. for any size lock described. The main frame is fitted with clamps adjustable to any thickness of door, from $\frac{5}{8}$ in. to $2\frac{1}{2}$ in., and provided with fiber washers which prevent the marring of the door. The main gear meshes in the small gear on the bit shaft, thus giving high speed to the boring motion of the bit. The main



Novelties.—Fig. 13.—*The Perfection Mortising Machine as it Appears Clamped to the Stile of a Door Ready to Mortise for the Lock.*

gear also operates the compound gears, which in turn operate the cam that carries the bit up and down through the mortise. The claim is made that with this machine any depth mortise can be cut up to $3\frac{1}{2}$ in., and that the mortise will hold the lock straighter and firmer while leaving the door stronger than would be the case with a mortise made by hand. With each machine is provided two bits, one 11-16 in. and the other 9-16 in. The former is used for all standard locks and the latter for $\frac{1}{2}$ in. locks and small catches. Either bit, it is stated, will make a perfect mortise in a $\frac{3}{4}$ -in. door. A neat four-page folder which the company has issued describes the Perfection mortising machine somewhat in detail, and gives full directions for operating it. The picture of the mortiser here shown represents it clamped on a door stile ready for operation.